

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Previously presented) A catheter system for creating an isolated blood vessel segment comprising:
 - a first catheter and a second catheter, each having a proximal and a distal end,
 - said first catheter having a first expandable occlusion device associated therewith,
 - said second catheter having a second expandable occlusion device associated therewith and being adapted to expand said second occlusion device distally of the first occlusion device on the first catheter,
 - said second catheter being slidably housed within a first lumen in said first catheter such the distance between said first and second occlusion device may be varied,
 - the occlusion devices being expandable to engage a wall of a blood vessel thereby substantially isolating an interior segment of a desired extent between said first and second occlusion devices, and at least one of said catheters having a relatively stiff proximal region, a softer intermediate region and a still softer distal region.
2. (Currently amended) A catheter system for creating an isolated blood vessel segment comprising:
 - a catheter and a guide wire each having a proximal and a distal end,
 - said catheter having a first expandable occlusion device associated therewith,

said guide wire having a second expandable occlusion device associated therewith and being adapted to expand said second occlusion device distally of the first occlusion device on the first catheter,
said catheter being slidably mounted on said guide wire,
the occlusion devices being expandable to engage a wall of a blood vessel thereby substantially isolating an interior segment of a desired [extend] extent between said first and second occlusion devices.

3. (Original) The catheter system of claim 1 wherein the system is provided with a pressure regulator.

4. (Previously presented) The catheter system of claim 1 wherein said second catheter is spaced from the inner wall of said first catheter to create a coaxial lumen surrounding a centrally located lumen.

5. (Original) The catheter system of claim 1 wherein said second catheter is provided with three lumens.

6. (Original) The catheter system of claim 4 wherein said centrally located lumen is provided with an axially extending tube.

7. (New) The catheter system of claim 1 wherein said second catheter is provided with an infusion port located proximally of the second expandable occlusion device.

8. (New) The catheter system of claim 1 wherein said second catheter is provided with a pressure monitoring port.

9. (New) The catheter system of claim 1 wherein at least one of said first expandable occlusion device and said second expandable occlusion device comprises a balloon formed of a compliant material.